Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A hollow microparticle comprising a hollow portion and a high-density polymer brush layer enclosing the hollow portion

wherein the polymer chain composing the polymer brush

layer is a block copolymer of at least one crosslinkable monomer

having a crosslinkable functional group and a non-crosslinkable

monomer,

blocks of the crosslinkable monomer are located innermost of the polymer brush layer, and

crosslinkable monomer blocks in a polymer chain and the crosslinkable monomer blocks in a discrete polymer chain are crosslinked via a linkage formed by reaction between the crosslinkable functional groups or via a linkage formed by reaction between the crosslinkable functional groups and a polyfunctional compound.

2. (Original) The hollow microparticle according to Claim 1, wherein the density of chains composing the polymer brush layer is 0.4 to 1.2 chains/nm².

3-4. (Cancelled)

- 5. (Original) The hollow microparticle according to Claim 2, wherein the molecular weight distribution index of each block of the polymer chain is from 1 to 1.50.
- 6. (Original) The hollow microparticle according to Claim 3, wherein the degree of polymerization of the crosslinkable monomer block is from 10 to 10000, and the degree of polymerization of the non-crosslinkable monomer block is from 10 to 10000.
- 7. (Original) The hollow microparticle according to Claim 1, which has a particle size of from 60 nm to 5 $\mu m\,.$
- 8. (Original) A hollow microparticle comprising a hollow portion and a high-density polymer brush layer enclosing the hollow portion, wherein a polymer chain composing the polymer brush

layer is a block copolymer of:

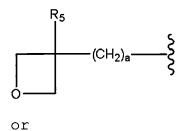
i) a crosslinkable monomer block located at inner part of the polymer brush layer, which is represented by the formula: [Formula 53]

$$\begin{array}{c|c}
 & R_1 \\
 & C \\
 & C$$

wherein

 R_1 is a hydrogen atom or a C_1 to C_6 alkyl group, $R_3 \ \text{is a crosslinkable functional group represent by the formula:}$

[Formula 54]



[Formula 55]

$$CH$$
 CH CH CH_{2}

wherein R_5 is a hydrogen atom or a C_1 to C_6 alkyl group, and a is an integer of from 1 to 3, and n is from 10 to 10000; and

ii) a non-crosslinkable monomer block located at outer
part of the polymer brush layer, which is represented by the
formula:

[Formula 56]

$$\begin{array}{c|c}
 & R_2 \\
 & C \\
 & C$$

wherein

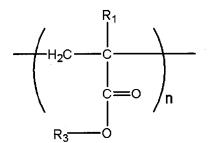
 R_2 is a hydrogen atom or a C_1 to C_6 alkyl group, $R_4 \text{ is a hydrogen atom, a } C_1 \text{ to } C_{12} \text{ alkyl group or a phenyl group,}$

and

m is from 10 to 10000; and

wherein crosslinkable monomer blocks in a polymer chain and the crosslinkable monomer blocks in a discrete polymer chain are crosslinked via a linkage formed by reaction between the crosslinkable functional groups.

- 9. (Previously presented) A hollow microparticle comprising a hollow portion and a high-density polymer brush layer enclosing the hollow portion, wherein a polymer chain composing the polymer brush layer is a block copolymer of:
- i) a crosslinkable monomer block located at inner part of the polymer brush layer, which is represented by the formula:
 [Formula 57]

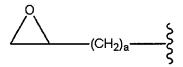


wherein

 R_1 is a hydrogen atom or a C_1 to C_6 alkyl group,

 $\ensuremath{R_3}$ is a hydrogen atom or a crosslinkable functional radical represented by the formula:

[Formula 58]



or

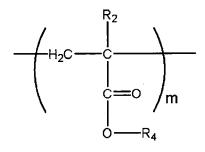
[Formula 59]

$$H_2N$$
—(CH₂)_a— ξ

wherein a is an integer of from 1 to 3, and n is from 10 to 10000; and

ii) a non-crosslinkable monomer block located at outer
part of the polymer brush layer, which is represented by the
formula:

[Formula 60]



wherein

 R_2 is a hydrogen atom or a C_1 to C_6 alkyl group,

 $\ensuremath{R_4}$ is a hydrogen atom, a $\ensuremath{C_1}$ to $\ensuremath{C_{12}}$ alkyl group or a phenyl group, and

m is from 10 to 10000; and

wherein crosslinkable monomer blocks in a polymer chain and the crosslinkable monomer blocks in a discrete polymer chain are crosslinked via a linkage formed by reaction between the crosslinkable functional group that is the carboxyl radical or the crosslinkable functional radical and a polyfunctional compound; and

wherein, if R_3 is a hydrogen atom, the polyfunctional compound is represented by a formula selected from the group consisting of:

[Formula 61]

 H_2N —— $(CH_2)_p$ —— NH_2 ,

[Formula 62]

$$\begin{array}{c|c} & \mathsf{NH}_2 \\ & & \\ & & \\ \mathsf{CH}_2)_{\mathfrak{q}} \\ & & \\ \mathsf{CH}_2)_{\mathfrak{q}} & & \\ & & \\ \mathsf{CH}_2)_{\mathfrak{q}} \\ & & \\ & & \\ \mathsf{NH}_2 & \end{array}$$

and

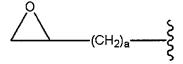
[Formula 63]

$$H_2N$$
 $(CH_2)_q$
 $(CH_2)_q$

wherein p is an integer of from 1 to 6, and q is an integer of from 1 to 3;

 $\mbox{if R_3 is a crosslinkable functional radical represented} \\ \mbox{by the formula:}$

[Formula 64]



the polyfunctional compound is represented by a formula selected from the group consisting of:

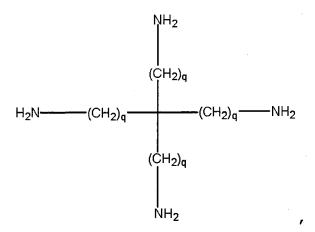
[Formula 65]

$$H_2N$$
— $(CH_2)_p$ — NH_2 ,

[Formula 66]

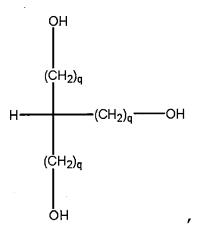
$$H \xrightarrow{\text{(CH}_2)_q} (\text{CH}_2)_q \xrightarrow{\text{(CH}_2)_q} \text{NH}_2$$

[Formula 67]



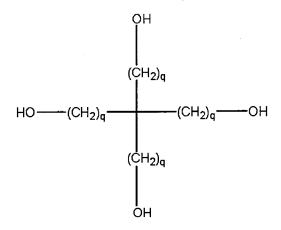
[Formula 68]

[Formula 69]



and

[Formula 70]



wherein p and q are as defined above; or

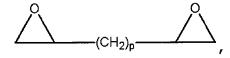
 $\mbox{if R_3 is a crosslinkable functional radical represented} \\ \mbox{by the formula:}$

[Formula 71]

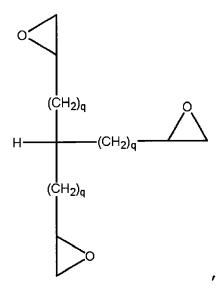
$$H_2N$$
—(CH₂) \tilde{a} — ξ

the polyfunctional compound is represented by a formula selected from the group consisting of:

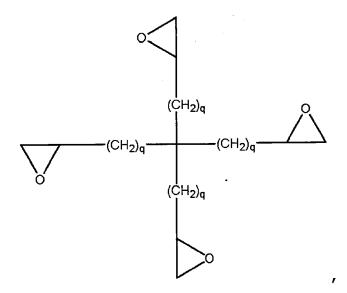
[Formula 72]



[Formula 73]



[Formula 74]



[Formula 75]

$$HOOC---(CH_2)_p----COOH$$
,

[Formula 76]

COOH
$$(CH_2)_q$$

$$H \longrightarrow (CH_2)_q \longrightarrow COOH$$

$$(CH_2)_q$$

$$COOH$$

and

[Formula 77]

HOOC——
$$(CH_2)_q$$
—— $(CH_2)_q$ — $(CH_2)_q$ —— $(CH_2)_q$ — $(CH_2)_q$ —— $(CH_2)_q$ — $(CH_2)_q$ —

wherein p and q are as defined above.

10-15. (Cancelled)